LOT-1.1a: Multimedia Projector

Projection System	RGB liquid crystal shutter projection system
Projection Method	Front / Rear / Ceiling mount
LCD Size	0.63" with MLA (D7)
Brightness	Min 3500 lumens
Contrast Ratio	2000 : 1
Screen Size [Projected Distance]	30" to 300" [0.84 - 13.90 m]
Resolution	XGA (1024 × 768) or Higher
Throw Ratio	1.38 (Zoom: Wide), 2.24 (Zoom: Tele)
Offset	8.6 : 1
Sound Output	16W × 1
Keystone Correction (Vertical/Horizontal)	±30° / ±30°
Auto Keystone Correction	Yes (Vertical Only: ±30°)
Connectivity Computer Input	D-sub 15pin (Blue molding) × 2
USB Display	Yes (3-in-1)
Dimensions excluding feet (D X W X H)	263 × 345 × 93 mm
Fan Noise (Normal/Eco)	Max. 33 / 28 dB
Brand	Any reputed brand (please specify)

LOT-1.1b: PROJECTOR CEILING MOUNT

Gross Weight	Min 2.7 kg
Gross Dimension	420 × 200 × 120 mm
Extendable length with optional ROD	900 mm Ø 38mm & Ø 42mm
Load Capacity	Min 15 kg
Color Option	Black or Silver

LOT-1.2a: Portable Tripod Projector Screen

Type	
Style	Duet
Front/Rear Projection	Front
Mount	Floor standing
Finish	Matte White
Tension Control	Permanently tensioned
Keystone Control	None

Dimensions	
Overall Size	In video format: Min 42.5" × 61.75"
	In HDTV format: Min 42.5" × 79.5"
	Without the stand the height is 42.5" and with the stand it's 76.25"; When closed, the screen is 9" wide
Image Size	In video format: 42.5 × 61.75"
	In HDTV format: 42.5 × 79.5"
Diagonal	Video format: 75"
	HDTV format: 80" (Approximate)
Format	Video and HDTV
Aspect Ratio	16 : 9
Frame Color	Black/White
Brand	Any reputed brand (please specify)

LOT-1.2b: Wall Mount Projector Screen

Type	
Style	Duet
Front/Rear Projection	Front
Mount	Wall mountable
Finish	Matte White
Tension Control	Permanently tensioned
Keystone Control	None
Dimensions	
Overall Size	In video format: Min 42.5" × 61.75"
	In HDTV format: Min 42.5" × 79.5"
	Without the stand the height is 42.5" and with the stand it's 76.25"; When closed, the screen is 9" wide
Image Size	In video format: 42.5 × 61.75"
	In HDTV format: 42.5 × 79.5"
Diagonal	Video format: 75"
	HDTV format: 80" (Approximate)
Format	Video and HDTV
Aspect Ratio	16 : 9
Frame Color	Black/White
Brand	Any reputed brand (please specify)

LOT-2.1: 240 W Power Amplifier

Power Source	220 - 240V AC or 24V DC
Rated Output	240W
Frequency Response	50 - 20,000Hz (+/- 3 dB)
Distortion	Under 1% at 1kHz,1/3 rated power
Input	MIC 1: -60db 600Ω, electronically balanced, 5-P Din type. MIC 2, 3:-60db 600Ω, electronically balanced, 5-P phone jack. AUX 1, 2: -20dB, 10kΩ, unbalanced, RCA pin jack. Mute: Contact Pin 4 - 5 Closure input (for MIC 1)
Output	Speaker Out: Balanced (floating), High Impedance:42W (100V), Low Impedance: 4Ω (31V), Rec. Out: OdB, 600Ω unbalanced, RCA pin jack
Phantom Power	DC + 21V (MIC 1)
S/N Ratio	Over 60dB
Tone Control	Bass: +/- 10 dB at 100k Hz Treble: +/- 10 dB at 10k Hz
Muting	MIC1: Mutes other signals by 0 - 30 dB attenuation
Indicator	Power signal, peak
Finish	Panel: ABS resin, black/Case: Steel plate, black
Dimensions	420 (W) × 100.9 (H) × 360.3 (D) mm
Brand	Any reputed brand (please specify)

LOT-2.2: 120 W Power Amplifier

Rated Output	120W
Frequency Response	50 - 20,000Hz (+/- 3 dB)
Distortion	Under 1% at 1kHz,1/3 rated power
Input	MIC 1: -60dB 600Ω, electronically balanced, 5-P Din type. MIC 2, 3:-60db 600Ω, electronically balanced, 5-P phone jack. AUX 1, 2: -20dB, 10kΩ, unbalanced, RCA pin jack. Mute: Contact Pin 4 - 5 Closure input (for MIC 1)
Output	Speaker Out: Balanced (floating), High Impedance:42W (100V), Low Impedance: 4Ω (31V), Rec. Out: Odb, 600Ω unbalanced, RCA pin jack
Phantom Power	DC + 21V (MIC 1)
S/N Ratio	Over 60dB
Tone Control	Bass: +/- 10 dB at 100k Hz Treble: +/- 10 dB at 10k Hz
Muting	MIC1: Mutes other signals by 0 - 30 dB attenuation
Indicator	Power signal, peak
Finish	Panel: ABS resin, black/Case: Steel plate, black
Dimensions	420 (W) × 100.9 (H) × 360.3 (D) mm
Brand	Any reputed brand (please specify)

LOT-2.3: Column Speaker

Rated Input	10W and 15W
Impedance	100 V line: min 1 kΩ (10W)
Sound Pressure Level	min 90 dB
Frequency Response	150 - 10000 Hz
Speaker component	12 cm cone type × 2
Finish	Enclosure: Extruded aluminum, Black Grille: Punched Aluminum
Dimension	167 (W) × 335 (H) × 141 (D) mm
Brand	Any reputed brand (please specify)

LOT-2.4: Ceiling-mount Speakers

Rated Input	min 6W
Rated Impedance	min 1.7 kΩ (6W)
Sound Pressure Level	min 90 dB (1 W, 1 m, 330 – 3300 Hz Pink noise)
Frequency Response	100 Hz – 16 kHz
Speaker Component	Speaker Component 12 cm (5") dynamic cone-type speaker
Mounting Method	Mounting Method Spring catch
Connection	Connection Push-in connector (Bridging terminal-2 branch type)
Finish	Finish Baffle: ABS resin, off-white (RAL 9010 or equivalent color)
Dimensions	Dimensions ø260 × 92 (d) (Exposed section) mm or ø10.24" × 3.62"
Brand	Any reputed brand (please specify)

LOT-2.5: Box Speaker

Enclosure	Sealed type
Power Handling Capacity	Continuous pink noise: 100 W, Continuous program: 300 W
Rated Impedance	8 Ω
Sensitivity	min 98 dB (1 W, 1 m)
Frequency Response	80 Hz – 20 kHz
Crossover Frequency	min 3 kHz
Directivity Angle	Horizontal: 90˚, Vertical: 40˚
Speaker Component	Low frequency: 38 cm (15) cone-type
Input Terminal	NEUTRIK NL4MP Speaker and M4 screw terminal, distance between barriers: 9 mm (0.35)"
Dimensions	451 (W) × 560 (H) × 400 (D) mm
Optional	Wall mount bracket, Speaker stand
Brand	Any reputed brand (please specify)

LOT-2.6a: UHF Hand-held Wireless Microphone with Tuner

Frequency Range	636 - 865 MHz, UHF
Channel Selectable	64 channels
RF Carrier Power	50 mW or less
Tone Frequency	min 32 kHz
Oscillator	PLL synthesized
Maximum Input Level	126 dB SPL
Maximum Deviation	±40 kHz
Audio Frequency Response	100 Hz - 15 kHz
Dynamic Range (AF Circuit)	95 dB or more (with WT-5800)
Battery	AA
Indicator	Power/Battery lamps
Antenna	Built-in type
Finish	Resin, rubber coating
Dimensions	φ43.6 × 231.5 mm
Accessory	Microphone holder (with stand adapter) …1
Brand	Any reputed brand (please specify)

LOT-2.6b: UHF Lavaliere (Tie) Wireless Microphone with Tuner

Microphone Element	Electret condenser microphone, omni-directional pattern
Frequency Range	636 - 865 MHz, UHF
Channel Selectable	64 channels
RF Carrier Power	50 mW or less
Tone Frequency	min 32 kHz
Oscillator	PLL synthesized
Maximum Input Level	110 dB SPL (Audio level control: Maximum position)
Battery	AA
Indicator	Power/Battery lamps
Antenna	Built-in type
Finish	Resin, coating
Dimensions	62 (W) × 102.5 (H) × 23 (D) mm
Brand	Any reputed brand (please specify)

LOT-2.6c: UHF Wireless Tuner

Power Source	AC mains (supplied AC adapter must be used)
Power Consumption	min 130 mA (12 V DC)
Receiving Frequency	576 - 865 MHz (*2), UHF
Channel Selectable	16 channels
Receiving System	Double super-heterodyne
Diversity System	Space diversity
Mixing Output	MIC: -60 dB (*1), 600 Ω, balanced, XLR-3-32 type connector
	LINE: -20 dB (*1), 600 Ω, unbalanced, phone jack
Mixing Input	-20 dB (*1), 10 kΩ, unbalanced, phone jack
Antenna	Whip antenna
Receiving Sensitivity	90 dB or more, Signal to Noise ratio (20 dBμV input, 40 kHz deviation)
Squelch Sensitivity	16 - 40 dBμV variable
Squelch System	Using together of noise SQ, carrier SQ and tone SQ
Tone Frequency	32.768 kHz
Indicator	ANT A/B, Audio (peak), Battery alarm, Channel number
Channel Check	Usable frequencies scanning
Signal to Noise Ratio	104 dB or more (A-weight, unbalanced output)
Harmonic Distortion	1 % or less (typical)
Frequency Response	100 Hz - 15 kHz, ±3 dB
Finish	Resin, black
Dimensions	206 (W) × 40.6 (H) × 152.7 (D) mm (8.11" × 1.6" × 6.01") (excluding antenna)
Accessory	AC adapter (*3)…1
Brand	Any reputed brand (please specify)

LOT-2.7: Unidirectional Microphone (Wired)

Type	Moving coil microphone
Directivity	Unidirectional
Rated Impedance	600 Ω, balanced
Rated Sensitivity	-54 dB (1 kHz 0 dB=1 V/Pa)
Frequency Response	70 - 15,000 Hz
Connection Cables	Single-core shielded cable, unbalanced
Cable Length	10 m
Terminal of Cable	Phone plug
Talk Switch	Short-off, slide switch
Finish	Body: Die-cast zinc, metallic gray, paint
	Head: Steel/zinc-plated steel wire, metallic gray, paint
Dimensions	φ51 × 170 mm (without connection cable)
Accessory	Microphone holder (U5/16)…1
Brand	Any reputed brand (please specify)

LOT-2.8: Digital Mixer System

Power Source	220 - 240 V AC
Power Consumption	min 20 W
Volume Adjustment	100 mm motorized fader × 12 Rotary encoder × 8
Input	Max 32 channel (stereo)
Headphone Output	Stereo 100 mW + 100 mW (32 Ω load)
Monitor Bus	1 stereo input, 1 stereo output/connector: RJ45
	Connection cable: Shielded twisted pair (STP) Cat 5 or higher twisted pair LAN cable
	Maximum cable distance: 100 m (between D-2012C and D-2008SP)
LAN	Network I/F: 10BASE-T/100BASE-TX (Automatic-Negotiation)
	RJ45 connector
	Network protocol: TCP/IP
	Connection cable: Shielded twisted pair (STP) Cat 5 or higher LAN cable
	Maximum cable distance: 100 m (between D-2008SP and switching hub)
Control	D-sub connector (9 pins) for maintenance use
Dimensions	482 mm (W) × 266 mm (H) × 138 mm (D)
Accessory	Power cord (2 m (6.5 ft)) ……1, Fader knob (yellow) ……3
Brand	Any reputed brand (please specify)

LOT-2.9a: Microphone Stand : Floor

Enlarged Extensible Length	1045 - 1706 mm
Boom Enlarged Extensible Length	53 - 660 mm
Mounting Screw	NS5/8 (pipe thread), U5/16 (adapter)
Finish	Steel pipe for general use, black, mat finish, paint
Accessory	Thread adapter …1
Brand	Any reputed brand (please specify)

LOT-2.9b: Microphone Stand : Desk

Mounting Screw	W5/16 thread, W5/8 thread (inner pipe)
Applicable Microphone	φ18 - φ35 mm in diameter
Finish	Shaft: Steel pipe for general use, Outer pipe: Black, semi-gloss, paint, Base: Iron casting, black, semi-gloss, paint
Accessory	Clip type microphone holder (W5/16 thread) 1
Brand	Any reputed brand (please specify)

LOT-3: Ultimate Interactive Short Throw LCD Projectors

Liquid crystal panel	0.59 type (inch), 1.5 cm Polysilicon active-matrix TFT × 3
Number of pixels	1,024,000 pixels (H 1280 × V 800) or more
Resolution	1280 × 800 color pixels (WXGA)
Digital zoom	x1.35
Lamp	210W UHP
Light output (brightness)	Min 2500 Lumens
Contrast ratio	2000 : 1 (Presentation mode)
Audio	Min 10W
Keystone correction	Manual Horizontal/Vertical Keystone
Power supply	AC100-120V/ AC220-240V

Input signals	Computer input	VGA, SVGA, XGA, WXGA, WXGA+, UXGA etc.
	Video input	NTSC, NTSC4.43, PAL, SECAM, PAL-M, PAL-N, PAL (60 Hz) 480i@60, 480p@60, 576i@50, 720p@50/60, 1080i@50/60, 1080p@50/60
Input/Output terminals	Video input	S-video: Mini Din 4-pin × 1, Composite video: RCA jack × 1, Component video: via Mini-Dsub × 2
	Audio input	Stereo Mini jack x 2, RCA jack x 2 (L/R)
	Computer input	Analog RGB: 15-pin Mini-Dsub × 2
	HDMI input	HDMI × 1 (HDCP compliant)
	Audio output	RCA jack × 2 (L/R)
	Monitor output	Analog RGB: 15-pin Mini-Dsub × 1
	USB	USB type A × 1(for PC-less presentation), USB type × 1 (for USB display or USB mouse control, and interactive function)
	Control	9-pin Dsub × 1 for RS232C
	Wired network (LAN)	RJ-45 × 1
	Mic. Input	Mono Mini jack × 1 (compatible with dynamic microphones and unbalanced signal lines)
Dimensions (W × H × D)		345 × 102 × 303 mm (excluding protruding part, when mirror is closed)
Standard accessories		Remote control (Part#: HL02772) with two AA batteries, power cord, computer cable, USB cable, min 2 interactive pen, and two AAA batteries, cable cover, user's manual, security label, application CD/DVD (network software), application CD/DVD (StarBoard software), wall mount unit and user's manual, sensor cover
Optional accessories		Lamp, Filter set, Laser remote control
Compatible operating systems		Windows XP, 7, 8
Brand		Any reputed brand (please specify)

LOT-4: Video Conferencing System with related accessories & software

Type	Set Top Video Conferencing System
Camera	Camera : ¼" Charge Coupled Device
	Presets : 6 positions or more
	Zoom : minimum 10x or more Optical zoom
	Pan : Minimum +/- 95 degrees
	Tilt : Minimum +15 to - 20 degrees
	Focus : Auto/Manual
	Functions : Zoom, pan, tilt, brightness and Far end camera control
Communication	Interface : 10/100 base T (RJ 45)
	Standards supported H.323.
	System to support IP data rate 768 Kbps or above
Video Features	Standards: H.261, H.263, H.263+, H.263++, H.264
	System should support PAL & NTSC
	Frame rate : 15 to 30 frames/second
	Resolution : QCIF, CIF
	System should support Picture-in-picture
	System should support Picture-in-picture
Video Input	System should support connectivity for one built-in camera and one external Video input (RCA)
Video Output	Monitor out × 2 (S-Video / Composite Video) 1 × RGB output of XGA resolution for connectivity to High
Audio Features	High sensitivity microphone – Built-in / External
	Built in echo cancellation facility
	Built in Noise reduction facility
	Automatic Gain Control facility
	Bandwidth and coding: G.711, G.722, G 722.1, G.728
Audio Inputs & Output	Audio input x 1(RCA connector)
	Audio out × 1 (RCA connection for Monitor speaker)
Control Port	Auxiliary control via RS232C port
Power Supply	230VAC/ 50 Hz
Warranty	Min Two years
Wall Mount Stand	Glass / Acrylic sheet with F-bracket stand for placing the Video conferencing system above the LCD TV on the wall
Brand	Any reputed brand (please specify)